

OIR

Serial Number: 09/867,274 CRF Errors Corrected by the STIC Systems BranchCRF Processing Date: 7/3/2001
Edited by: [Signature]
Verified by: [Signature] (STIC staff)**ENTERED**

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☒ Corrected an obvious error in the response, specifically: 21507 response
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seq 23 - moved 22137 explanation to 22237 line

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/867,274

DATE: 07/03/2001

TIME: 16:47:22

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07032001\I867274.raw

5 <110> APPLICANT: Paszty, Christopher
 6 Gao, Yongming

8 <120> TITLE OF INVENTION: Cysteine Knot Polypeptides: Cloaked-2 Molecules and Uses
 Thereof

10 <130> FILE REFERENCE: 01017/37428

C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/867,274

C--> 12 <141> CURRENT FILING DATE: 2001-05-29

12 <150> PRIOR APPLICATION NUMBER: US 60/208,550

13 <151> PRIOR FILING DATE: 2000-06-01

15 <150> PRIOR APPLICATION NUMBER: US 60/223,542

16 <151> PRIOR FILING DATE: 2000-08-04

18 <160> NUMBER OF SEQ ID NOS: 25

20 <170> SOFTWARE: PatentIn version 3.0

22 <210> SEQ ID NO: 1

23 <211> LENGTH: 759

24 <212> TYPE: DNA

25 <213> ORGANISM: Homo sapiens

27 <400> SEQUENCE: 1

```

29 tactggaagg tggcgtgccc tcctctggtt ggtaccatgc agctcccact ggccctgtgt      60
31 ctggtctgcc tgctggtaca cacagccttc cgtgtagtgg agggccaggg gtggcaggcg      120
33 ttcaagaatg atgccacgga aatcatcccc gagctcggag agtaccocga gcctccaccg      180
35 gagctggaga acaacaagac catgaaccgg gcggagaacg gagggcggcc tcccaccac      240
37 ccctttgaga ccaaagacgt gtccgagtac agctgccgag agctgcactt caccgctac      300
39 gtgaccgatg ggccgtgccg cagcgccaag ccggtcaccg agctggtgtg ctccggccag      360
41 tgcggcccg cgcgcctgct gcccaacgcc atcggccgag gcaagtgggtg gcgacctagt      420
43 gggcccgact tccgctgcat ccccgaccgc taccgcgcg agcgcggtgca gctgctgtgt      480
45 ccggtggtg aggcgcgcg cgcgcgcaag gtgcgcctgg tggcctcgtg caagtgaag      540
47 cgctcaccg gcttccacaa ccagtccgag ctcaaggact tcgggaccga ggccgctcgg      600
49 ccgcagaagg gccggaagcc gcggccccgc gcccgagcgg ccaaagccaa ccaggccgag      660
51 ctggagaacg cctactagag ccgcgcgcg ccctcccca ccggcgggcg ccccgccct      720
53 gaacccgcgc cccacatttc tgtcctctgc gcgtggttt      759

```

56 <210> SEQ ID NO: 2

57 <211> LENGTH: 190

58 <212> TYPE: PRT

59 <213> ORGANISM: Homo sapiens

61 <400> SEQUENCE: 2

```

65 Gln Gly Trp Gln Ala Phe Lys Asn Asp Ala Thr Glu Ile Ile Pro Glu
66 1          5          10          15
68 Leu Gly Glu Tyr Pro Glu Pro Pro Pro Glu Leu Glu Asn Asn Lys Thr
69 20          25          30
71 Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Phe Glu
72 35          40          45
74 Thr Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Phe Thr Arg
75 50          55          60
77 Tyr Val Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu
78 65          70          75          80
80 Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile
81 85          90          95

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/867,274

DATE: 07/03/2001

TIME: 16:47:22

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07032001\I867274.raw

```

83 Gly Arg Gly Lys Trp Trp Arg Pro Ser Gly Pro Asp Phe Arg Cys Ile
84                               100                               105                               110
86 Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly
87                               115                               120                               125
89 Glu Ala Pro Arg Ala Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys
90                               130                               135                               140
92 Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly
93 145                               150                               155                               160
95 Thr Glu Ala Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Arg Ala
96                               165                               170                               175
98 Arg Ser Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
99                               180                               185                               190
102 <210> SEQ ID NO: 3
103 <211> LENGTH: 636
104 <212> TYPE: DNA
105 <213> ORGANISM: Mus musculus
107 <400> SEQUENCE: 3
109 atgcagccct cactagcccc gtgcctcatc tgcctacttg tgcacgctgc cttctgtgct      60
111 gtggagggcc aggggtggca agccttcagg aatgatgcc aagaggtcat cccagggcct      120
113 ggagagtacc ccgagcctcc tcctgagaac aaccagacca tgaaccgggc ggagaatgga      180
115 ggcagacctc cccaccatcc ctatgacgcc aaagatgtgt ccgagtacag ctgccgcgag      240
117 ctgcactaca cccgcttccct gacagacggc ccatgccgca gcgccaaagcc ggtcaccgag      300
119 ttggtgtgct ccggccagtg cggccccgcg cggtgtgtgc ccaacgccat cgggcgcgtg      360
121 aagtggtggc gcccgaaagg accggatttc cgctgcatcc cggatcgcta ccgcgcgcag      420
123 cgggtgcagc tgcgtgtgcc cgggggcgcg gcgcgcgcgt cgcgcaaggt gcgtctggtg      480
125 gcctcgtgca agtgcaagcg cctcaccgcg ttccacaacc agtcggagct caaggacttc      540
127 gggccggaga ccgcgcggcc gcagaagggt cgcaagccgc ggcccggcgc ccggggagcc      600
129 aaagccaacc aggcggagct ggagaacgcc tactag                                636
132 <210> SEQ ID NO: 4
133 <211> LENGTH: 185
134 <212> TYPE: PRT
135 <213> ORGANISM: Mus musculus
137 <400> SEQUENCE: 4
139 Gln Gly Trp Gln Ala Phe Arg Asn Asp Ala Thr Glu Val Ile Pro Gly
140 1                               5                               10                               15
142 Leu Gly Glu Tyr Pro Glu Pro Pro Pro Glu Asn Asn Gln Thr Met Asn
143                               20                               25                               30
145 Arg Ala Glu Asn Gly Gly Arg Pro Pro His His Pro Tyr Asp Ala Lys
146                               35                               40                               45
148 Asp Val Ser Glu Tyr Ser Cys Arg Glu Leu His Tyr Thr Arg Phe Leu
149                               50                               55                               60
151 Thr Asp Gly Pro Cys Arg Ser Ala Lys Pro Val Thr Glu Leu Val Cys
152 65                               70                               75                               80
154 Ser Gly Gln Cys Gly Pro Ala Arg Leu Leu Pro Asn Ala Ile Gly Arg
155                               85                               90                               95
157 Val Lys Trp Trp Arg Pro Asn Gly Pro Asp Phe Arg Cys Ile Pro Asp
158                               100                              105                              110
160 Arg Tyr Arg Ala Gln Arg Val Gln Leu Leu Cys Pro Gly Gly Ala Ala
161                               115                              120                              125

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/867,274

DATE: 07/03/2001

TIME: 16:47:22

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07032001\I867274.raw

```

163 Pro Arg Ser Arg Lys Val Arg Leu Val Ala Ser Cys Lys Cys Lys Arg
164      130      135      140
166 Leu Thr Arg Phe His Asn Gln Ser Glu Leu Lys Asp Phe Gly Pro Glu
167 145      150      155      160
169 Thr Ala Arg Pro Gln Lys Gly Arg Lys Pro Arg Pro Gly Ala Lys Ala
170      165      170      175
172 Asn Gln Ala Glu Leu Glu Asn Ala Tyr
173      180      185
176 <210> SEQ ID NO: 5
177 <211> LENGTH: 213
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapiens
181 <400> SEQUENCE: 5
183 Met Gln Leu Pro Leu Ala Leu Cys Leu Val Cys Leu Leu Val His Thr
184 1      5      10      15
186 Ala Phe Arg Val Val Glu Gly Gln Gly Trp Gln Ala Phe Lys Asn Asp
187      20      25      30
189 Ala Thr Glu Ile Ile Pro Glu Leu Gly Glu Tyr Pro Glu Pro Pro Pro
190      35      40      45
193 Glu Leu Glu Asn Asn Lys Thr Met Asn Arg Ala Glu Asn Gly Gly Arg
194      50      55      60
196 Pro Pro His His Pro Phe Glu Thr Lys Asp Val Ser Glu Tyr Ser Cys
197 65      70      75      80
199 Arg Glu Leu His Phe Thr Arg Tyr Val Thr Asp Gly Pro Cys Arg Ser
200      85      90      95
202 Ala Lys Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala
203      100      105      110
205 Arg Leu Leu Pro Asn Ala Ile Gly Arg Gly Lys Trp Trp Arg Pro Ser
206      115      120      125
208 Gly Pro Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val
209      130      135      140
211 Gln Leu Leu Cys Pro Gly Gly Glu Ala Pro Arg Ala Arg Lys Val Arg
212 145      150      155      160
214 Leu Val Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln
215      165      170      175
217 Ser Glu Leu Lys Asp Phe Gly Thr Glu Ala Ala Arg Pro Gln Lys Gly
218      180      185      190
220 Arg Lys Pro Arg Pro Arg Ala Arg Ser Ala Lys Ala Asn Gln Ala Glu
221      195      200      205
223 Leu Glu Asn Ala Tyr
224      210
227 <210> SEQ ID NO: 6
228 <211> LENGTH: 208
229 <212> TYPE: PRT
230 <213> ORGANISM: Mus musculus
232 <400> SEQUENCE: 6
234 Met Gln Pro Ser Leu Ala Pro Cys Leu Ile Cys Leu Leu Val His Ala
235 1      5      10      15
237 Ala Phe Cys Ala Val Glu Gly Gln Gly Trp Gln Ala Phe Arg Asn Asp

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/867,274

DATE: 07/03/2001

TIME: 16:47:22

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07032001\I867274.raw

```

238      20      25      30
240 Ala Thr Glu Val Ile Pro Gly Leu Gly Glu Tyr Pro Glu Pro Pro Pro
241      35      40      45
243 Glu Asn Asn Gln Thr Met Asn Arg Ala Glu Asn Gly Gly Arg Pro Pro
244      50      55      60
246 His His Pro Tyr Asp Ala Lys Asp Val Ser Glu Tyr Ser Cys Arg Glu
247 65      70      75      80
249 Leu His Tyr Thr Arg Phe Leu Thr Asp Gly Pro Cys Arg Ser Ala Lys
250      85      90      95
252 Pro Val Thr Glu Leu Val Cys Ser Gly Gln Cys Gly Pro Ala Arg Leu
253      100      105      110
255 Leu Pro Asn Ala Ile Gly Arg Val Lys Trp Trp Arg Pro Asn Gly Pro
257      115      120      125
259 Asp Phe Arg Cys Ile Pro Asp Arg Tyr Arg Ala Gln Arg Val Gln Leu
260      130      135      140
262 Leu Cys Pro Gly Gly Ala Ala Pro Arg Ser Arg Lys Val Arg Leu Val
263 145      150      155      160
265 Ala Ser Cys Lys Cys Lys Arg Leu Thr Arg Phe His Asn Gln Ser Glu
266      165      170      175
268 Leu Lys Asp Phe Gly Pro Glu Thr Ala Arg Pro Gln Lys Gly Arg Lys
269      180      185      190
271 Pro Arg Pro Gly Ala Lys Ala Asn Gln Ala Glu Leu Glu Asn Ala Tyr
272      195      200      205

```

275 <210> SEQ ID NO: 7

276 <211> LENGTH: 24

277 <212> TYPE: DNA

C--> 278 <213> ORGANISM: Artificial

280 <220> FEATURE:

281 <223> OTHER INFORMATION: Artificial: PCR primer

283 <400> SEQUENCE: 7

285 tactggaagg tggcgtgccc tcct

288 <210> SEQ ID NO: 8

289 <211> LENGTH: 26

290 <212> TYPE: DNA

C--> 291 <213> ORGANISM: Artificial

293 <220> FEATURE:

294 <223> OTHER INFORMATION: Artificial: PCR primer

296 <400> SEQUENCE: 8

298 aaaccacgcg cagaggacag aaatgt

301 <210> SEQ ID NO: 9

302 <211> LENGTH: 29

303 <212> TYPE: DNA

C--> 304 <213> ORGANISM: Artificial

306 <220> FEATURE:

307 <223> OTHER INFORMATION: Artificial: PCR primer

309 <400> SEQUENCE: 9

311 gccaggggtg gcaagccttc aagaatgat

314 <210> SEQ ID NO: 10

315 <211> LENGTH: 24

24

26

29

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/867,274

DATE: 07/03/2001

TIME: 16:47:22

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07032001\I867274.raw

316 <212> TYPE: DNA
C--> 317 <213> ORGANISM: Artificial
319 <220> FEATURE:
321 <223> OTHER INFORMATION: Artificial: PCR primer
323 <400> SEQUENCE: 10
325 cgatccggga tgcagcggaa gtcg
328 <210> SEQ ID NO: 11
329 <211> LENGTH: 27
330 <212> TYPE: DNA
C--> 331 <213> ORGANISM: Artificial
333 <220> FEATURE:
334 <223> OTHER INFORMATION: Artificial: PCR primer
336 <400> SEQUENCE: 11
338 ccataccta acgactcact atagggc
341 <210> SEQ ID NO: 12
342 <211> LENGTH: 24
343 <212> TYPE: DNA
C--> 344 <213> ORGANISM: Artificial
346 <220> FEATURE:
347 <223> OTHER INFORMATION: Artificial: PCR primer
349 <400> SEQUENCE: 12
351 tgcaggaag cgggtgtagt gcag
354 <210> SEQ ID NO: 13
355 <211> LENGTH: 23
356 <212> TYPE: DNA
C--> 357 <213> ORGANISM: Artificial
359 <220> FEATURE:
360 <223> OTHER INFORMATION: Artificial: PCR primer
362 <400> SEQUENCE: 13
364 actcactata gggctcgagc ggc
367 <210> SEQ ID NO: 14
368 <211> LENGTH: 25
369 <212> TYPE: DNA
C--> 370 <213> ORGANISM: Artificial
372 <220> FEATURE:
374 <223> OTHER INFORMATION: Artificial: PCR primer
376 <400> SEQUENCE: 14
378 ggacacatct ttggcgtcat aggga
381 <210> SEQ ID NO: 15
382 <211> LENGTH: 21
383 <212> TYPE: DNA
C--> 385 <213> ORGANISM: Artificial
387 <220> FEATURE:
388 <223> OTHER INFORMATION: Artificial: PCR primer
390 <400> SEQUENCE: 15
392 tacacccgct tcctgacaga c
395 <210> SEQ ID NO: 16
396 <211> LENGTH: 27
397 <212> TYPE: DNA

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/867,274

DATE: 07/03/2001

TIME: 16:47:23

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07032001\I867274.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:278 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:291 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:304 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:317 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:331 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:344 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:357 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:370 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:385 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:398 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:411 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:424 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:438 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:452 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:465 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:478 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:491 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:505 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24